Inventors: Lal and Owen
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Title: IMMUNOGENIC HIV-1 MULTI-CLADE, MULTIVALENT CONSTRUCTS
AND METHODS OF THEIR USE
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Figure 1A

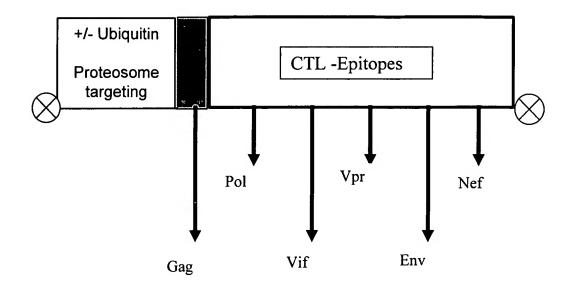
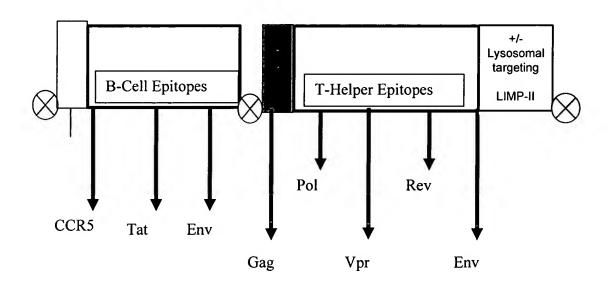


Figure 1B



= unique restriction site

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Figure 1C

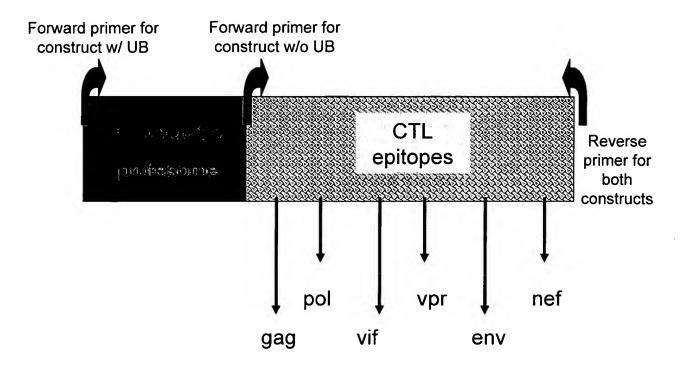
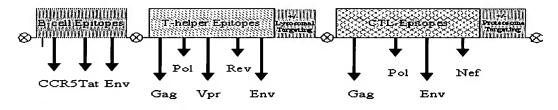


Figure 1D

Vaccine Construct Epitopes



Unique restriction site

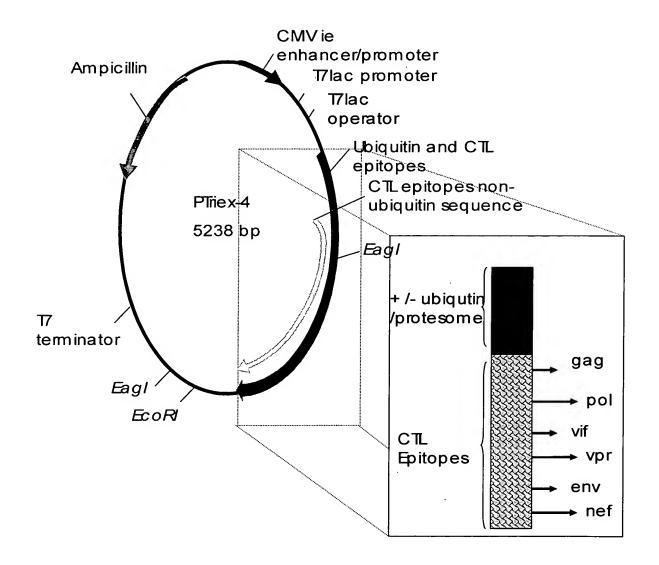
AND METHODS OF THEIR USE Attorney's Matter No.: 6395-67675-06/: MH Replacement Drawing Figure 2A Sheet 3 of 7 6 Oligos SOE Annealing Annealing and extension and extension 3-4 5-6 7-8 SOE Annealing and extension Annealing and extension Hind III 1-4 **PCR** Nhe I Xho I Hind III Ligation Xho ~1.5 Kb Nhe I Stop Codon Clone to Vector pVax-Figure 2C Figure 2B pUC Ori pUC Ori CMV CMV **Promoter Promoter** Nhe I Nhe l (697)(697) $\mathsf{pVAXMCMV}_{\mathsf{CTL-ubiquitin}}$ $\mathsf{pVAXMCMV}_\mathsf{CTL}$ 4452 bp 4322 bp **Ubiquitin + CTL** epitopes Kan R CTL epitopes Kan R -Managanah **BGHpA BGHpA** Xho I Xho I (2240)(2240)

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Figure 3



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Figure 4

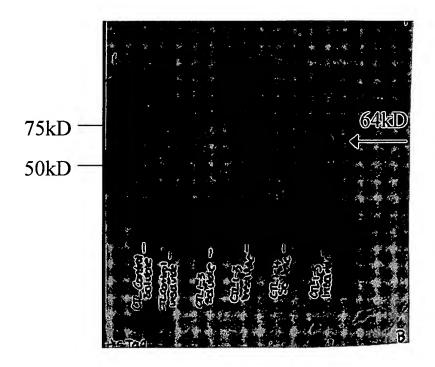
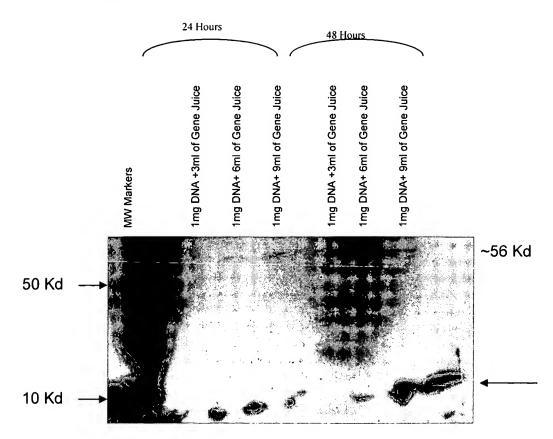
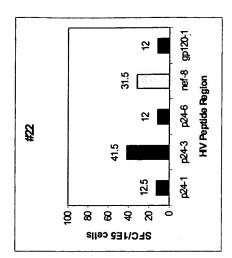


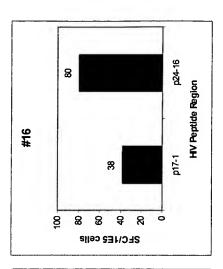
Figure 5

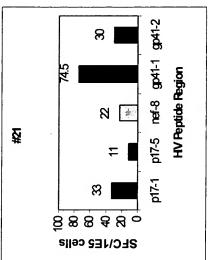


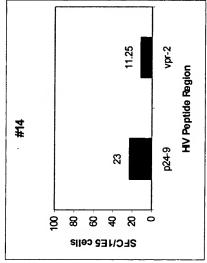
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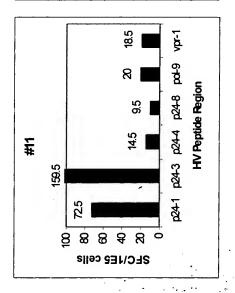
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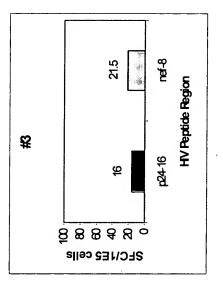




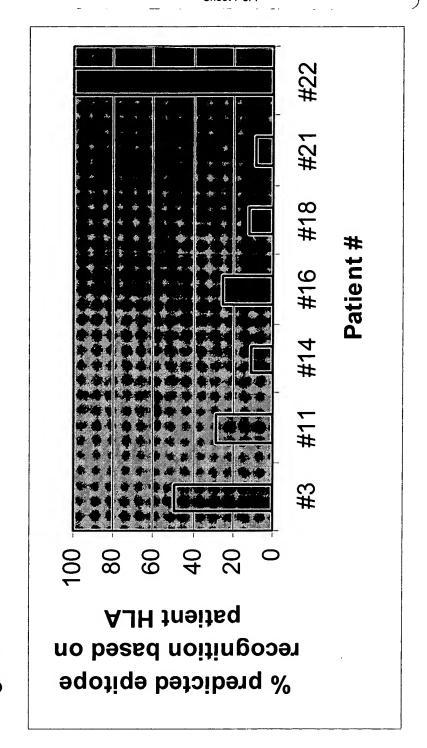








-igure 6



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